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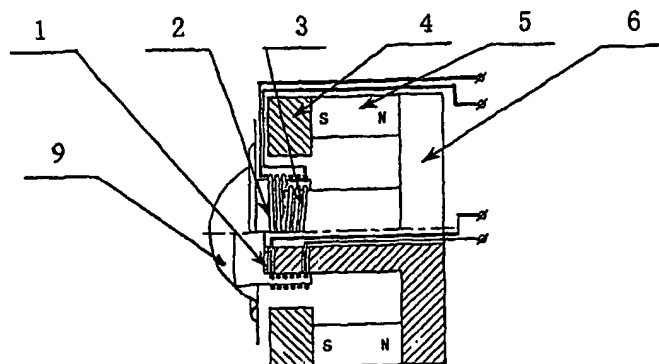
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(54) Title: A LOW-INDUCTANCE ELECTROMAGNETIC DRIVE WITHOUT DRIVING THE MAGNETIC FLUX CIRCUIT

(54) 发明名称: 一种不激励磁路的低电感电磁驱动器



(57) Abstract: The present invention relates to a low-inductance electromagnetic drive without driving the magnetic flux circuit, which includes the magnetic pole, the drive coil, the upper magnetic board, the permanent magnet and the lower magnetic board, and the magnetic pole is integrated with the lower magnetic board, the permanent magnet is between the upper magnetic board and the lower magnetic board, the drive coil can move along the axle to cover the magnetic pole. The electromagnetic drive also includes the fastening coil, and the fastening coil is fastened to a certain proper place of the magnetic flux circuit of the drive coil, furthermore the fastening coil is jointed with the drive coil antiphasely, and the present invention is characterized in that the drive source is taken to excite the fastening coil initiatively as quantity as the drive coil but antiphasely, so that the excitation energy produced by the current flowed through the speaker for the magnetic flux circuit system is reduced to the minimum, the inductance quantity of the speaker is decreased to the minimum, the sound distortion of the vibration system connected with the drive coil is decreased.



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(57) 摘要

本发明涉及一种不激励磁路的低电感电磁驱动器，包括导磁柱、驱动线圈、导磁上板、永久磁铁、导磁下板，该导磁柱与导磁下板连成一体，该永久磁铁位于导磁上板与导磁下板之间，该驱动线圈可作轴向运动套在导磁柱上，该电磁驱动器还包括固定线圈，该固定线圈固定在驱动线圈的磁路位置适当处，且该固定线圈与驱动线圈反相位联接，本发明的特征在于由驱动源对固定线圈作与驱动线圈等量但反相的主动激励，使得流过扬声器的电流对磁路系统产生的激励能量降至最低，扬声器的电感量减至最小，与驱动线圈连接的振动系统声音失真变小。